

## Utah Weekly Pertussis Update

2015 data, through MMWR week ending October 17, 2015 (MMWR week 41)

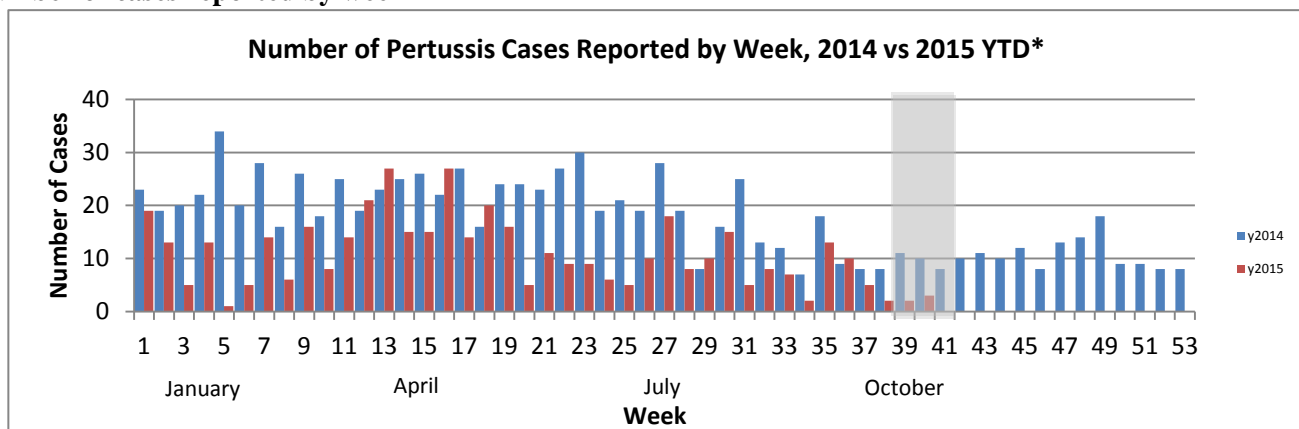
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	432	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	18.7
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	0	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	796	2015 Hospitalizations	14
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	34
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	34	50,052	85.5
1-4	67	203,815	41.4
5-14	116	505,598	28.9
15-24	90	469,436	24.1
25-34	29	440,736	8.3
35-44	44	372,699	14.9
45-54	17	305,312	7.0
55-64	21	269,589	9.8
65+	14	283,635	6.2
Total	432	2,900,872	18.7

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

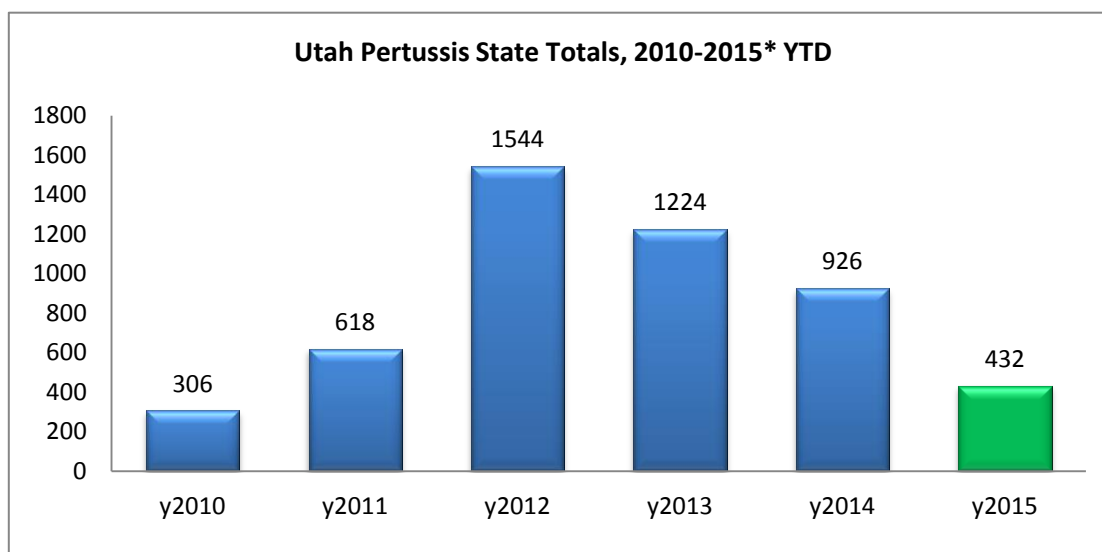
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	181	103,602	219.9
Kindergarten	5	13	53,177	30.8
1	6	11	52,869	26.2
2	7	6	52,063	14.5
3	8	16	51,809	38.9
4	9	11	51,080	27.1
5	10	13	50,567	32.4
6	11	12	48,961	30.8
7	12	10	49,008	25.7
8	13	12	48,884	30.9
9	14	12	47,180	32.0
10	15	31	46,321	84.2
11	16	21	45,914	57.6
12	17	18	44,889	50.5

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	3	2.2
Central Utah	10	16.5
Davis County	58	22.7
Salt Lake Valley	116	13.5
San Juan County	13	109.3
Southeast Utah	1	3.1
Southwest Utah	9	5.3
Summit County	42	137.4
Tooele County	3	6.2
TriCounty	2	4.4
Utah County	80	18.2
Wasatch County	7	33.3
Weber-Morgan	44	22.3

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

